

[54] **APPARATUS FOR MOLDING OUTER AND INNER SOLES AND A SOLE WELT ONTO SHOE UPPERS**

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[*] **Notice:** The portion of the term of this patent subsequent to Mar. 7, 2006 has been disclaimed.

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[30] **Foreign Application Priority Data**

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[52] **U.S. Cl.** **425/119; 425/129.2; 425/576; 264/244**

[58] **Field of Search** **264/244; 425/119, 129.2, 425/576**

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[57] **ABSTRACT**

Outer and inner soles and a sole welt are molded onto shoe uppers. A molded outer sole is formed by injection molding plasticized thermoplastic material into a first mold cavity defined by a first mold part at an end of a pivotable mold carrier and a confronting mold plate. A molded sole welt closed on itself is formed on a last supported shoe upper by injection molding plasticized thermoplastic material into a sole welt mold cavity defined by an opposed pair of first lateral mold elements closed against the shoe upper while a second mold part at an opposite end of the mold carrier confronts the shoe upper and the lateral mold elements. The mold carrier is shifted away from the lateral mold elements and pivoted to confront the first mold part and the molded outer sole to the shoe upper. An inner sole mold cavity is formed with the molded outer sole by closing an opposed pair of second lateral mold elements located between the first lateral elements and the first mold part. A molded inner sole is formed by injection molding foamed plasticized thermoplastic material into the inner sole mold cavity. The molded outer sole may be formed by separately injection molding plasticized thermoplastic material into portions of the first mold cavity during first and second steps of the first molding cycle.

2 Claims, 2 Drawing Sheets

